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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,230	04/13/2004	Jun Xu	879.1.007 4654	
7:	590 09/08/2006		EXAMINER	
Kenneth Watov, Esq. WATOV & KIPNES, P.C.			FIORITO, JAMES	
P.O. Box 247		ART UNIT	PAPER NUMBER	
Princeton Junction, NJ 08550			1754	

DATE MAILED: 09/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/823,230	XU ET AL.				
Office Action Summary	Examiner	Art Unit				
	James A. Fiorito	1754				
- The MAILING DATE of this communication app	ears on the cover sheet with the c	correspondence addre	ess			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this comm D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on	_·	•				
2a) This action is FINAL . 2b) ☑ This	action is non-final.					
<i>,</i> —	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-13 and 23 is/are pending in the app	lication.					
4a) Of the above claim(s) 14-22 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13 and 23</u> is/are rejected.						
7) Claim(s) is/are objected to.	-1					
8) Claim(s) <u>1-23</u> are subject to restriction and/or e	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>13 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) I he oath or declaration is objected to by the Ex	caminer. Note the attached Oπice	Action or form PTO	-152.			
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prio	•	ed in this National St	age			
application from the International Bureau * See the attached detailed Office action for a list		ed.				
* See the attached detailed Office action for a list of the certified copies not received.						
	·					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	, (PTO-413)				
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/13/04.	5) Notice of Informal F	Patent Application (PTO-1	52)			

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-13, and 23, are drawn to a iron oxyhydroxide material, classified in class 423, subclass 632.
- II. Claims 14-22, are drawn to a method of making iron oxyhydroxide, classified in class 422, subclass 162.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the iron oxyhydroxide can be made from a process using FeOCI precursor.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

During a telephone conversation with Ken Watov on 4/19/06 a provisional election was made without traverse to prosecute the invention of I, claims 1-13, and 23. Affirmation of this election must be made by applicant in replying to this Office action. Claims 14-22 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites "weakly resembling" this language is unclear, because it does not specify how the iron oxyhydroxide is supposed to resemble alpha-FeOOH or goethite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 and 23 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Schlegel '292.

Schlegel teaches iron oxyhydroxide fine particles with a particle size between 4 and 50 nm and a BET surface area of between 50 and 500 m²/g (Paragraph 80).

Schlegel teaches the particles may be of the alpha-FeOOH phase (Paragraph 81).

Schlegel does not expressly state that the iron oxyhydroxide fine particles are capable of intercalating ions, the specific capacity nor the energy storage capacity of the particles. However, where the claimed and prior art product(s) are identical or substantially identical, or are produced by identical or substantially identical process(es) the burden of proof is on applicant to establish that the prior art product(s) do not necessarily or inherently possess the characteristics of the instantly claimed product(s), see In re Best, 195 USPQ 430.

With respect to Claim 23, the prior art discloses a material which appears to be either identical with or only slightly different than the product claimed in the product-by-process claim 23, a rejection based alternatively on either section 102 or 103 of the statue is eminently fair and acceptable. As a practical matter, the Patent Office is not equipped to manufacture products by the myriad of processes put before it and then obtain prior art products and make physical comparisons therewith. In re Brown, 459 F.2d 531, 535. 173 USPQ 685, 688 (CCPA 1972).

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Claims 1-13 and 23 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sakurai "Preparation of electrochemically active alpha-LiFeO₂ at low temperature" Solid State Ionics (1998).

Sakurai teaches iron oxyhydroxide intercalated with lithium ions (Page 29). Sakurai teaches the particles may be of the alpha-FeOOH phase (Abstract).

Sakurai does not expressly state the particle size, surface area, specific capacity or energy storage capacity of the iron oxyhydroxide. However, where the claimed and prior art product(s) are identical or substantially identical, or are produced by identical or substantially identical process(es) the burden of proof is on applicant to establish that the prior art product(s) do not necessarily or inherently possess the characteristics of the instantly claimed product(s), see In re Best, 195 USPQ 430.

With respect to Claim 23, the prior art discloses a material which appears to be either identical with or only slightly different than the product claimed in the product-by-process claim 23, a rejection based alternatively on either section 102 or 103 of the statue is eminently fair and acceptable. As a practical matter, the Patent Office is not equipped to manufacture products by the myriad of processes put before it and then obtain prior art products and make physical comparisons therewith. In re Brown, 459 F.2d 531, 535, 173 USPQ 685, 688 (CCPA 1972).

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Fiorito whose telephone number is (571)272-7426. The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

James Fiorito Patent Examiner 5F AU 1754 Steven BosV

Primary Patent Examiner
ALL 1754